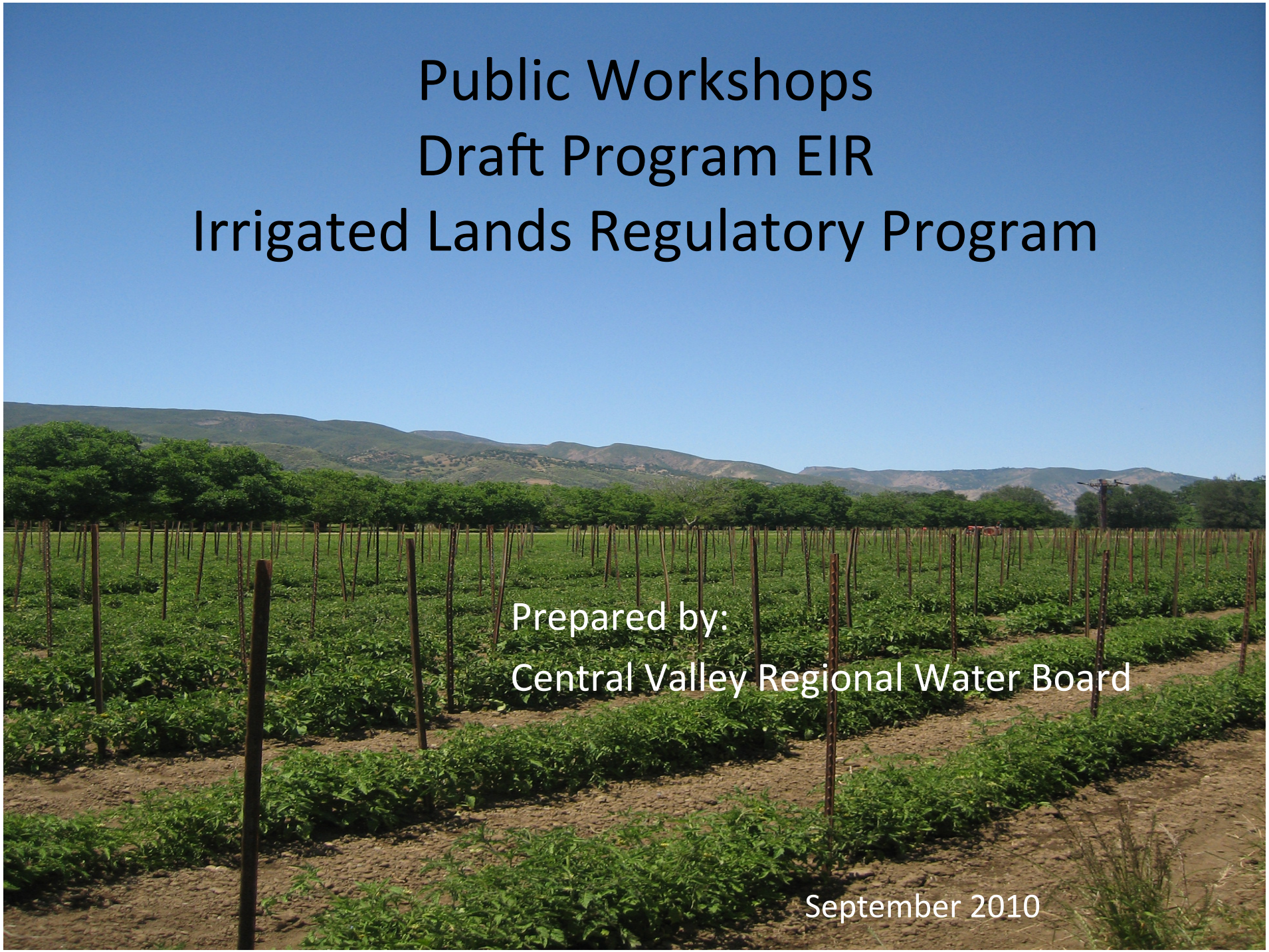
Public Workshops
Draft Program EIR
Irrigated Lands Regulatory Program



Prepared by:

Central Valley Regional Water Board

September 2010

Introductions

- Central Valley Water Board Members
- Central Valley Water Board staff
- ICF International staff / Consultants
- CSUS Center for Collaborative Policy staff

ICF INTERNATIONAL

SACRAMENTO STATE
Center for Collaborative Policy

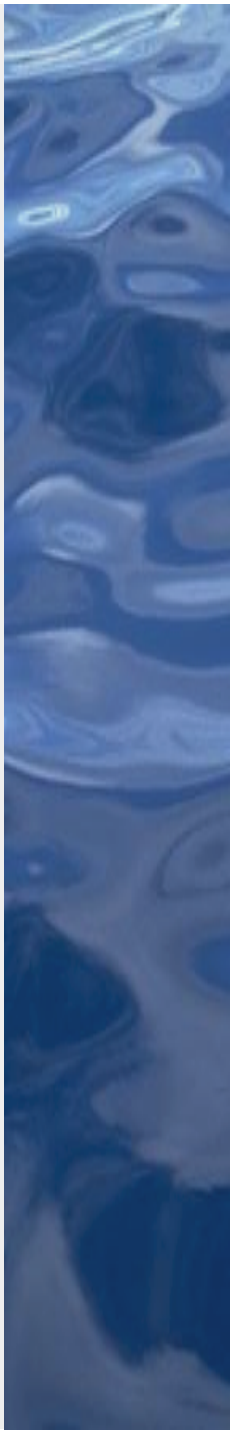
STATE OF CALIFORNIA
CENTRAL VALLEY REGION
REGIONAL WATER QUALITY CONTROL BOARD

Presentation Goals

- Review project background of the Irrigated Lands Regulatory Program (ILRP)
- Overview of the Draft Program Environmental Impact Report (PEIR)
  - 5 workgroup-developed program alternatives
  - staff preferred program alternative
  - environmental analysis
  - costs analysis
- Breakout sessions: comments and questions on the Draft PEIR

Water Quality Board Context

- Water Quality Laws
  - Implement federal Clean Water Act and State Porter-Cologne Water Quality Act
  - State law provides broad authority to regulate discharges to all ground and surface waters
- General Approach to Regulation
  - Each program has same activities: monitoring, assessment, planning, implementation
- Other Activities Currently Regulated
  - Stormwater from cities, construction sites, industry; dairies; treated wastewater; contaminated sites

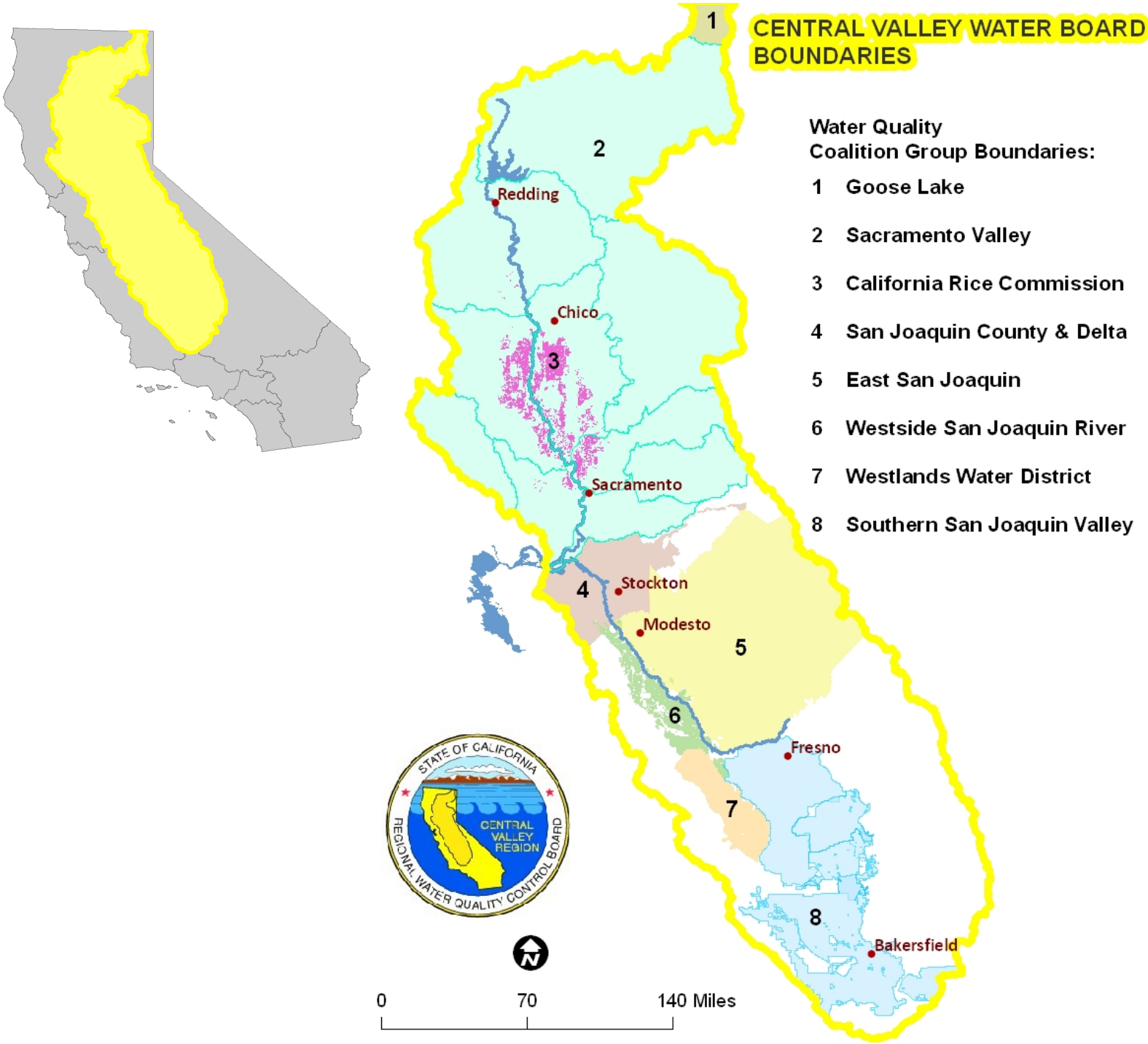


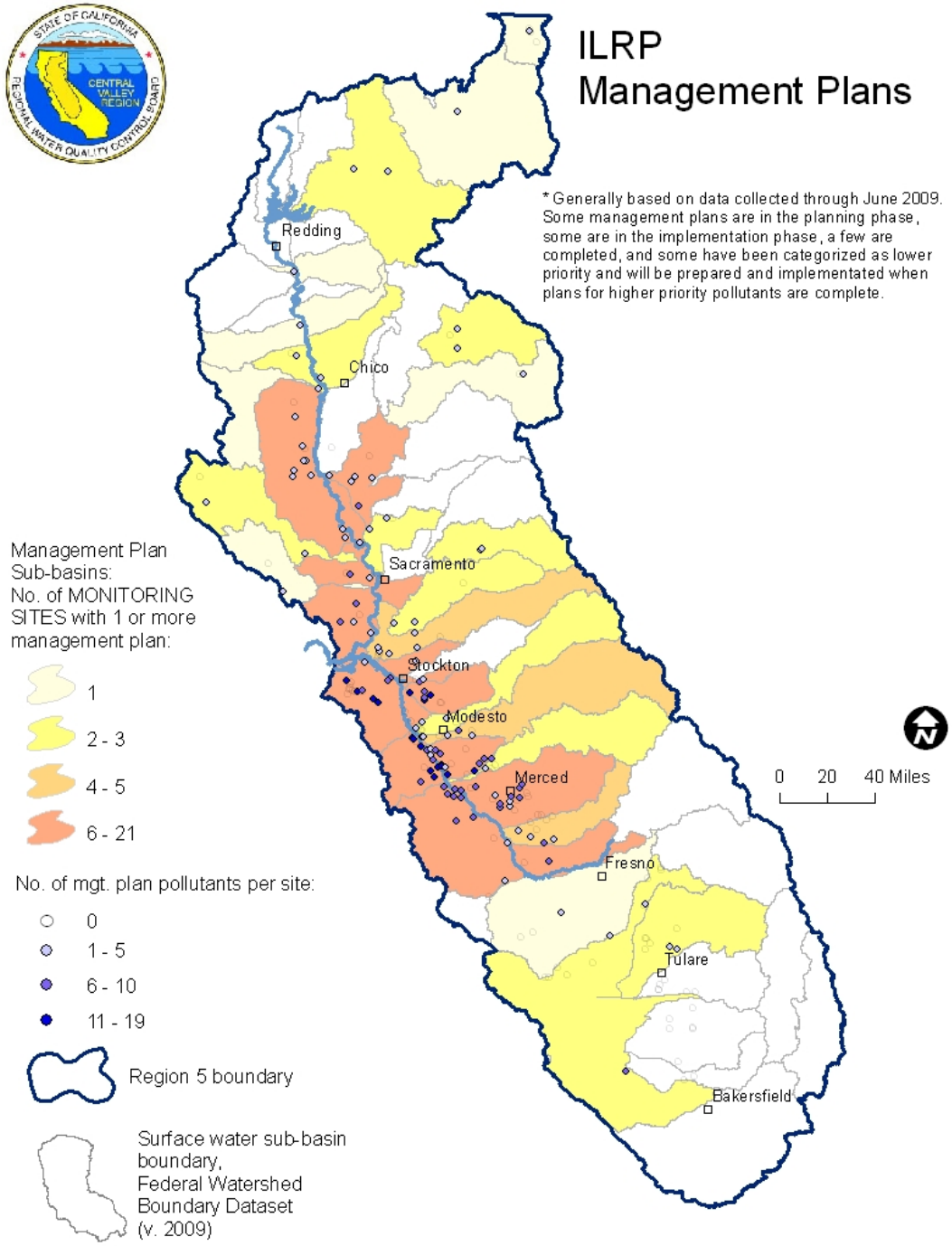
Water Quality Board Context

- Staffing
  - 17 personnel years for 25,000 growers (about 1,500 to 1)
  - Other programs (dischargers to staff ratio):
    - Wastewater treatment plants
      - Surface water 10:1
      - Ground water only 64:1
    - Underground storage tanks 70:1
    - Dairy program 110:1

ILRP Background

- Current program:
  - 2003 and 2006 Conditional Waivers -- EIR
  - Surface water program
  - 8 coalition groups of growers
  - Water quality monitoring and management plan development
- Existing Conditions Report


CENTRAL VALLEY WATER BOARD BOUNDARIES
Water Quality
Coalition Group Boundaries:
1 Goose Lake
2 Sacramento Valley
3 California Rice Commission
4 San Joaquin County & Delta
5 East San Joaquin
6 Westside San Joaquin River
7 Westlands Water District
8 Southern San Joaquin Valley
Redding
Chico
Sacramento
Stockton
Modesto
Fresno
Bakersfield
STATE OF CALIFORNIA
CENTRAL VALLEY REGION
REGIONAL WATER QUALITY CONTROL BOARD
0
70
140 Miles


ILRP
Management Plans
* Generally based on data collected through June 2009. Some management plans are in the planning phase, some are in the implementation phase, a few are completed, and some have been categorized as lower priority and will be prepared and implemented when plans for higher priority pollutants are complete.
Redding
Chico
Sacramento
Stockton
Modesto
Merced
Fresno
Tulare
Bakersfield
0 20 40 Miles
Management Plan Sub-basins: No. of MONITORING SITES with 1 or more management plan:
1
2 - 3
4 - 5
6 - 21
No. of mgt. plan pollutants per site:
0
1 - 5
6 - 10
11 - 19
Region 5 boundary
Surface water sub-basin boundary, Federal Watershed Boundary Dataset (v. 2009)

Long-term ILRP Development

- March and April 2008 CEQA scoping meetings

- Stakeholder Advisory Workgroup

  Coalitions
  Commodity groups
  Dairy industry
  Fertilizer industry
  Pesticide industry
  Wetland managers
  Irrigation districts
  Water districts
  Water agencies
  Farm Bureau
  Environmental groups
  Environmental justice
  Tribal governments
  Ag Commissioners
  State and federal agencies

Workgroup Accomplishments: ILRP Goals and Objectives

- Restore and/or maintain the highest reasonable quality of state waters, considering all the demands being placed on the water
- Minimize waste discharge from irrigated agricultural lands that could degrade the quality of state waters
- Maintain the economic viability of agriculture in California's Central Valley
- Ensure that irrigated agricultural discharges do not impair Central Valley communities and residents access to safe and reliable drinking water

Workgroup Accomplishments: ILRP Goals and Objectives

Summarized objectives:

- Restore and/or maintain beneficial uses by ensuring that all State waters meet applicable water quality objectives
- Encourage implementation of management practices that improve water quality
- Provide incentives for agricultural operations to minimize waste discharges to State waters
- Promote coordination with other regulatory and non-regulatory programs to minimize duplicative regulatory oversight while ensuring program effectiveness

Workgroup Accomplishments: 5 Program Alternatives

No.	Alternative	Lead Entity [a]	WQ Plans [b]	Monitoring
1	No Change	Third-party	Yes, regional [c]	Regional
2	Third-party Lead Entity	Third-party	Yes, regional [c]	Regional
3	Individual FWQMP	CVWB [d]	Yes, farm	Farm
4	Direct Oversight with Regional Monitoring	Responsible Legal Entity [e], CVWB	Yes, farm	Regional
5	Direct Oversight with Farm Monitoring	CVWB	Yes, farm	Farm

a Describes Central Valley Water Board interaction with growers.

b Water Quality Management Plans (WQ Plans)—could be on the farm or regional level.

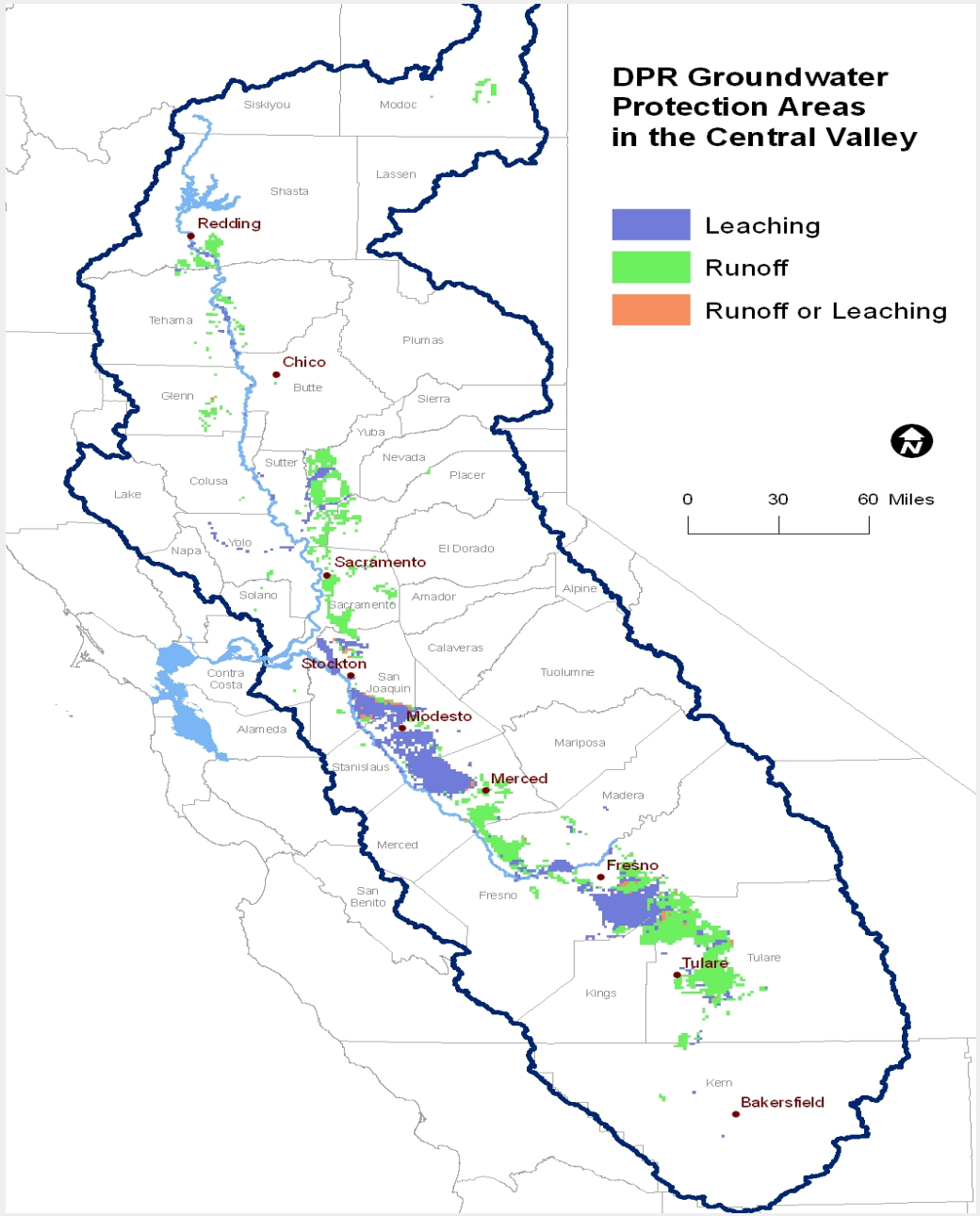
c Water quality management plans are required only where water quality problems have been identified.

d CVWB = Central Valley Regional Water Quality Control Board.

e Legal entity assuming responsibility for waste discharge (e.g., Joint Powers Authority).

Recommended long-term ILRP

- Scope: consideration of surface and groundwater waste discharges
- Third-party or coalition group lead
- 8-12 geographic/commodity-based orders
- Timeframe for implementation
- Prioritized requirements
- Regional surface and groundwater quality management plans
- Regional surface and groundwater quality monitoring
- Time schedule for compliance


DPR Groundwater Protection Areas in the Central Valley
Leaching
Runoff
Runoff or Leaching
0
30
60 Miles
Siskiyou
Modoc
Lassen
Shasta
Redding
Tehama
Plumas
Chico
Butte
Glenn
Sierra
Yuba
Nevada
Sutter
Placer
Colusa
Lake
Napa
Yolo
El Dorado
Sacramento
Solano
Amador
Alpine
Calaveras
Stockton
Contra Costa
San Joaquin
Tuolumne
Modesto
Alameda
Mariposa
Stanislaus
Merced
Madera
Merced
Fresno
San Benito
Fresno
Tulare
Tulare
Kings
Kern
Bakersfield

Program EIR analysis

- Potential impacts associated with predicted implementation of management practices
- Practice types predicted:
  - Nutrient management
  - Irrigation water management
  - Tailwater recovery system
  - Pressurized irrigation system
  - Cover crop
  - Buffer strip – sediment trap
  - Abandoned well protection

Resources with Potentially Significant Impacts

Mitigated to less than significant impacts:

- Cultural resources
- Noise
- Air quality
- Vegetation and wildlife
- Fisheries
- Hydrology and water quality

Significant and unavoidable impact:

- Agriculture resources

Cumulatively considerable impact:

- Climate change

Mitigation Measures

- Implementation orders (waivers/WDRs); include strategy to:
  - Encourage practices implementation in non-sensitive resource areas,
  - Implement mitigation where practices cannot be moved or another less intrusive practice substituted, or
  - Require additional CEQA work where mitigation is infeasible

Costs

- Components of analysis :
  - Cost estimate
  - Impact of cost on production
  - Effects on regional economy
- Limitations of analysis:
  - Water code prohibits the Board from specifying practices – practice implementation assumptions based on limited available data concerning present practices
  - Sensitivity analysis for pasture lands –61% reduction in cost if tailwater return systems not implemented

Summary of Average Estimated Annualized Costs ($000,000) by Alternative

	1	2	3	4	5	Rec. ILRP
Administration	5.4	6.5	70	20	67	6.5
Monitoring	6.8	10.6	35	23	302	17.3
Management practices	466	468	468	468	952	468
Total	**478**	**485**	**574**	**511**	**1,321**	**492**
Percent Change from Alt 1	0	1.4	20	7	176	2.9

Source: Irrigated Lands Regulatory Program Economics Report
Totals may not exactly equal the sum of individual cost categories as a result of rounding.

Summary of Changes in Total Value of Production
($000,000) by Basin from Alternative 1 (full implementation of current ILRP)

Basin	2	3	4	5	Rec. ILRP
Sacramento River	-1.3	-18.3	-4.5	-118.4	
Percent Change	-0.0%	-0.6%	-0.1%	-3.6%	
San Joaquin River	-5.5	-19.2	-9.2	-108.1	
Percent Change	-0.2%	-0.6%	-0.3%	-3.2%	
Tulare Lake	-0.6	-3.3	-1.2	-42.2	
Percent Change	-0.0%	-0.1%	-0.0%	-0.7%	
Total	-7.4	-40.9	-14.9	-268.7	-7.4 to -14.9
Percent Change	-0.1%	-0.3%	-0.1%	-2.1%	-0.1%

Source: Irrigated Lands Regulatory Program Economics Report
Totals may not sum as a result of rounding.

Summary of Changes in Agriculture Sector Jobs by Basin from Alternative 1 (full implementation of current ILRP)

Basin	2	3	4	5	Rec. ILRP
Sacramento River	-10	-108	9	-880	
San Joaquin River	-43	-98	-26	-714	
Tulare Lake	-5	7	26	-34	
Total	-58	-199	9	-1628	-58 to 9

Source: Irrigated Lands Regulatory Program Economics Report
Represents net impacts on jobs (full- and part-time) in agricultural sectors resulting from changes in agricultural production and compliance-related spending.

Next Steps

- Comments due on Draft PEIR by September 27, 2010
- Final ILRP and PEIR early 2011
- Board consideration of Final ILRP and PEIR no later than March 31, 2011
- Orders to implement long-term ILRP developed during year following Board certification of PEIR

PEIR Comments

- The Central Valley Water Board prefers that comments be submitted electronically to the following email address: ILRPcomments@icfi.com.
- If email is unavailable, written comments should be provided to:
  - ILRP Comments
    Ms. Megan Smith
    ICF International
    630 K Street, Suite 400
    Sacramento, CA 95814
    Fax: (916) 456-6724


Next: Breakout sessions for
questions and discussion

Contact Information

- Long-term irrigated lands regulatory program: Adam Laputz
  - Phone: (916) 464-4848
  - Email: **awlaputz@waterboards.ca.gov**
- Long-term program website:
  - http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/development_long_term_ilrp/index.shtml